

**SEQUENCE OF CONSTRUCTION**

PRE-PHASE 1:

PRIOR TO THE START OF PHASE 1, THE SOUTHBOUND OUTSIDE SHOULDER MUST BE RECONSTRUCTED IN ORDER TO CARRY SHIFTED PHASE 1 TRAFFIC. ALL TEMPORARY PAVEMENT REQUIRED FOR SOUTHBOUND TRAFFIC DURING PHASE 1 AND PHASE 2A SHALL BE CONSTRUCTED IN CONJUNCTION WITH THE SHOULDER RECONSTRUCTION.

ANY PRE-PHASE 1 WORK THAT IMPACTS TRAVEL LANES SHALL BE COMPLETED BY UTILIZING NIGHTTIME LANE CLOSURES PER ODOT SCD MT-95.30. THE LANE CLOSURES MAY ONLY BE IMPLEMENTED DURING HOURS ALLOWED AS LISTED IN THIS PLAN.

PHASE 1:

CLOSE THE INSIDE LANE OF THE THREE LANE SECTION OF I-71 SOUTHBOUND. LANE CLOSURE CONFIGURATION SHALL REMAIN FOR THE DURATION OF PHASE 1 AND PHASES 2A AND 2B. SHIFT SOUTHBOUND LANES ONTO OUTSIDE SHOULDER AND OUTSIDE LANE.

I-71 NORTHBOUND SHALL REMAIN IN EXISTING CONFIGURATION.

CONSTRUCT PROPOSED AREA OF SOUTHBOUND I-71 AS SHOWN IN THE PLANS.

WINTER 2023:

TRAFFIC SHALL BE SHIFTED INTO PHASE 2A CONFIGURATION BY NOVEMBER 1, 2023 WHICH SHALL CONSTITUTE AN INTERIM COMPLETION DATE. TO PROVIDE ADDITIONAL SPACE FOR MOTORIST DURING THE WINTER, THE PHASE 2A PORTABLE BARRIER SHALL NOT BE SET IN THE FOLLOWING LOCATIONS UNTIL APRIL 1, 2024 UNLESS APPROVED BY THE ENGINEER:

- STA. 444+85 TO STA. 470+00
- STA. 587+00 TO STA. 604+00
- STA. 630+00 TO STA. 644+00
- STA. 729+00 TO STA. 742+20

IN LEUI OF PORTABLE BARRIER IN THESE LOCATIONS, DRUMS SHALL BE PLACED ALONG THE EDGE OF TRAVEL WAY. TEMPORARY IMPACT ATTENUATORS SHALL BE USED TO PROTECT THE ENDS OF THE PORTABLE BARRIER. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY AS PAYMENT FOR THIS WORK:

ITEM 614 - WORK ZONE IMPACT ATTENUATOR, 24" WIDE - 3 EA

WORK ON PHASE 2 MAY CONTINUE IN AREAS ADEQUATELY PROTECTED BY PORTABLE BARRIER.

EMERGENCY PULL-OFF SHOWN IN THE PLANS SHALL REMAIN OPEN OVER THE WINTER. ADDITIONALLY, A TEMPORARY PULL-OFF SHALL BE CREATED USING EXISTING PAVEMENT ON THE WEST SIDE OF THE SOUTHBOUND LANES PER THE DETAILS SHOWN ON SHEET P.26. AT THE FOLLOWING LOCATIONS:

- STA. 589+00 TO STA. 602+20
- STA. 729+00 TO STA. 742+20 -

NOTE: A 10' WIDE STRIP OF EXISTING PAVEMENT ADJACENT TO THE PHASE LINE SHALL BE MILLED 2" +/- FROM STA. 729+00 TO STA. 732+00 TO MAINTAIN APPROXIMATELY EQUAL EXISTING AND PROPOSED ELEVATIONS.

THE LOCATION OF THE TEMPORARY PULL-OFF MAY BE ADJUSTED AT THE DIRECTION OF THE ENGINEER. THE COSTS FOR ALL SIGNING, MATERIALS, AND EQUIPMENT NECESSARY TO PLACE THE TEMPORARY PULL-OFF SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 - MAINTAINING TRAFFIC.

PHASE 2A:

SHIFT I-71 SOUTHBOUND LANES ONTO COMPLETED INSIDE LANE AND SHOULDER OF SOUTHBOUND I-71 CONSTRUCTED DURING PHASE 1.

CLOSE INSIDE PORTION OF EXIT RAMP B. SHIFT TRAFFIC ONTO OUTSIDE PORTION OF RAMP B AND TEMPORARY RAMP PAVEMNT.

CLOSE INSIDE PORTION OF ENTRANCE RAMP A. SHIFT TRAFFIC ONTO OUTSIDE PORTION OF RAMP A.

I-71 NORTHBOUND SHALL REMAIN IN EXISTING CONFIGURATION.

CONSTRUCT PROPOSED AREA OF I-71 SOUTHBOUND, RAMP A AND RAMP B AS SHOWN IN THE PLANS.

CONSTRUCT TEMPORARY PAVEMENT FOR RAMP A WIDENING.

PHASE 2B:

I-71 SOUTHBOUND LANES SHALL REMAIN IN PHASE 2A CONFIGURATION.

CLOSE OUTSIDE PORTION OF EXIT RAMP B. SHIFT TRAFFIC ONTO INSIDE PORTION OF RAMP B CONSTRUCTED IN PREVIOUS PHASE.

CLOSE OUTSIDE PORTION OF ENTRANCE RAMP A. SHIFT TRAFFIC ONTO INSIDE PORTION OF RAMP A CONSTRUCTED IN PREVIOUS PHASE AND TEMPORARY PAVEMENT.

I-71 NORTHBOUND SHALL REMAIN IN EXISTING CONFIGURATION.

CONSTRUCT REMAINING PROPOSED AREA OF I-71 SOUTHBOUND, RAMP A AND RAMP B AS SHOWN IN THE PLANS.

WINTER 2024:

THE PROJECT SHALL ENTER A WINTERIZATION PHASE BY OCTOBER 1, 2024 WHICH SHALL CONSTITUTE AN INTERIM COMPLETION DATE. NORTHBOUND TRAFFIC SHALL REMAIN IN EXISTING CONFIGURATION. SOUTHBOUND TRAFFIC SHALL BE RECONFIGURED TO THE PROPOSED THREE LANE CONFIGURATION. NORTHBOUND RAMPS SHALL REMAIN IN EXISTING CONFIGURATION. SOUTHBOUND RAMPS SHALL BE OPENED IN FINAL CONFIGURATION.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY IN ORDER TO COMPLETE THIS WORK:

- ITEM 614 - WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN - 734 EACH
- ITEM 648 - EDGE LINE, WHITE, 6" - 8.33 MILES
- ITEM 648 - EDGE LINE, YELLOW, 6" - 8.33 MILES
- ITEM 648 - LANE LINE, 6" - 16.66 MILES
- ITEM 648 - CHANNELINZING LINE, 12" - 1570 FEET
- ITEM 648 - DOTTED LINE, 6" - 1622 FEET

PRE-PHASE 3:

PRIOR TO THE START OF PHASE 3, THE NORTHBOUND MEDIAN CROSSOVERS AND THE NORTHBOUND TEMPORARY RAMP ACCESS FOR RAMPS C & D MUST BE COMPLETE ALONG WITH ALL SHOULDER RECONSTRUCTION AND TEMPORARY PAVEMENT ON RAMPS C & D IF NOT PREVIOUSLY COMPLETED.

ANY PRE-PHASE 3 WORK THAT IMPACTS TRAVEL LANES SHALL BE COMPLETED BY UTILIZING NIGHTTIME LANE CLOSURES PER ODOT SCD MT-95.30. THE LANE CLOSURES MAY ONLY BE IMPLEMENTED DURING HOURS ALLOWED AS LISTED IN THIS PLAN.

PHASE 3A:

CLOSE INSIDE LANE OF I-71 SOUTHBOUND. SHIFT REMAINING TWO SOUTHBOUND LANES ONTO OUTSIDE SHOULDER AND OUTSIDE LANE.

I-71 NORTHBOUND LANES SHALL REMAIN ON CONSTRUCTED I-71 SOUTHBOUND INSIDE SHOULDER AND LANES MATCHING PART 2.

USE SOUTHERN PORTION OF TEMPORARY RAMP C ACCESS TO MAINTAIN RAMP TRAFFIC. CLOSE INSIDE PORTION OF RAMP C. SHIFT TRAFFIC ONTO OUTSIDE PORTION OF RAMP C.

CLOSE INSIDE PORTION OF RAMP D. SHIFT TRAFFIC ONTO OUTSIDE PORTION OF RAMP D. USE NORTHERN PORTION OF TEMPORARY ENTRANCE RAMP D ACCESS TO MAINTAIN RAMP TRAFFIC.

CONSTRUCT PROPOSED AREAS OF I-71 NORTHBOUND, INSIDE AREA OF RAMP A, AND INSIDE AREA OF RAMP D.

CONSTRUCT TEMPORARY PAVEMENT FOR RAMP D WIDENING.

PHASE 3B:

I-71 NORTHBOUND AND SOUTHBOUND LANES, SHIFTS AND CROSSOVERS SHALL REMAIN IN PHASE 3A CONFIGURATION.

USE NORTHERN PORTION OF TEMPORARY EXIT RAMP C ACCESS TO MAINTAIN RAMP TRAFFIC. CLOSE OUTSIDE PORTION OF RAMP C. SHIFT TRAFFIC ONTO INSIDE PORTION OF RAMP C.

CLOSE OUTSIDE PORTION OF RAMP D. SHIFT TRAFFIC ONTO INSIDE PORTION OF RAMP D AND TEMPORARY PAVEMENT. USE SOUTHERN PORTION OF TEMPORARY ENTRANCE RAMP D ACCESS TO MAINTAIN RAMP TRAFFIC.

COMPLETE CONSTRUCTION OF PROPOSED AREAS OF I-71 NORTHBOUND, OUTSIDE AREA OF RAMP A, AND OUTSIDE AREA OF RAMP D.

WINTER 2025:

THE PROJECT SHALL ENTER A WINTERIZATION PHASE BY OCTOBER 1, 2025 WHICH SHALL CONSTITUTE AN INTERIM COMPLETION DATE. ALL TRAFFIC SHALL BE OPENED IN FINAL CONFIGURATION AND MAINTAINED ON INTERMEDIATE COURSE. PAVEMENT MARKINGS SHALL BE PLACED IN THEIR FINAL LOCATIONS PER THE TRAFFIC CONTROL PLAN.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY IN ORDER TO COMPLETE THIS WORK:

- ITEM 614 - WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN - 1434 EACH
- ITEM 648 - EDGE LINE, WHITE, 6" - 16.27 MILES
- ITEM 648 - EDGE LINE, YELLOW, 6" - 16.27 MILES
- ITEM 648 - LANE LINE, 6" - 32.54 MILES
- ITEM 648 - CHANNELINZING LINE, 12" - 3140 FEET
- ITEM 648 - DOTTED LINE, 6" - 3216 FEET

SHOULD WORK DELAY AND FULL COMPLETION OF PHASE 3 WORK FOR PART 1 AND PART 2 NOT BE ACHIEVABLE, THE CONTRACTOR MAY IMPLEMENT A CROSSOVER NEAR THE SOUTHERN LIMIT OF PART 1 AT THE APPROVAL OF THE ENGINEER. THE CROSSOVER WILL RETURN NORTHBOUND TRAFFIC FROM PHASE 3 TO THE COMPLETED NORTHBOUND PAVEMENT. ALL COSTS TO CONSTRUCT THE TEMPORARY CROSSOVER INCLUDING ADDITIONAL STRIPING, SIGNING AND TEMPORARY PAVEMENT SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 - MAINTAINING TRAFFIC.

PHASE 4:

AT THE CONCLUSION OF THE 2025 WINTER PHASE, COMPLETE ANY REMAINING FULL DEPTH RECONSTRUCTION WORK. THE REMAINING EXISTING I-71 PAVEMENT THAT IS TO BE RESURFACED (OUTSIDE THE FULL DEPTH LIMITS) SHALL BE MILLED TO THE DEPTH SPECIFIED IN THE PLANS. THE FINAL WEARING COURSE OF BOTH NEWLY CONSTRUCTED AND EXISTING MILLED PAVEMENTS SHALL THEN BE INSTALLED. ONCE COMPLETED, FINAL PAVEMENT MARKINGS SHALL BE APPLIED PER THE TRAFFIC CONTROL PLANS. THIS WORK SHALL BE COMPLETED BY UTILIZING ODOT SCD MT-97.11. IN ADDITION TO THIS WORK, THE MEDIAN CABLE BARRIER SHALL BE INSTALLED PER THE ROADWAY PLANS AND TEMPORARY PAVEMENT SHALL BE REMOVED BY UTILIZING ODOT SCD MT-95.45 EXCEPT DRUMS MAY BE USED IN THE PLACE OF PCB AS LONG AS DROP-OFF REQUIREMENTS ARE MET (PER ODOT SCD MT-101-90).

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY IN ORDER TO COMPLETE THIS WORK:

- ITEM 614 - WORK ZONE EDGE LINE, CLASS III, WHITE, 6", 642 PAINT - 16.27 MILES
- ITEM 614 - WORK ZONE EDGE LINE, CLASS III, YELLOW, 6", 642 PAINT - 16.27 MILES
- ITEM 614 - WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT - 32.54 MILES
- ITEM 614 - WORK ZONE CHANNELINZING LINE, CLASS III, 12", 642 PAINT - 3140 FEET
- ITEM 614 - WORK ZONE DOTTED LINE, CLASS III, 6" - 3216 FEET

OVERHEAD STRUCTURE CONSTRUCTION:

OVERHEAD BRIDGE CONSTRUCTION SHALL OCCUR AT ANY TIME DURING THE PROJECT. SIDE ROADS SHALL BE CLOSED AND DETOURED AS SHOWN IN THE PLANS. THE CONTRACTOR SHALL COORDINATE MAINTENANCE OF TRAFFIC NEEDS ALONG I-71 WITH THE RESPECTIVE PHASE OF I-71 MAINTENANCE OF TRAFFIC.

SR-56 SHALL REMAIN OPEN AT ALL TIMES UTILIZING THE EXISTING LANE CONFIGURATION OR SIGNALIZED BIDIRECTIONAL TRAFFIC AS SHOWN IN THE PLANS. CONSTRUCTION OF THE SR-56 STRUCTURE MAY OCCUR AT ANY TIME DURING THE PROJECT. THE CONTRACTOR SHALL COORDINATE MAINTENANCE OF TRAFFIC NEEDS ALONG SR-56 WITH NECESSARY RAMP WORK AT THE INTERCHANGE. SHOULD THE RAMPS BE COMPLETE PRIOR TO THE STRUCTURE WORK, THE CONTRACTOR SHALL ADJUST THE TEMPORARY SIGNAL LAYOUT TO MATCH THE PROPOSED RAMPS.

DESIGN AGENCY



E.L. ROBINSON ENGINEERING  
1466 West 9th St, Suite 800  
Cleveland, Ohio  
950 Goodale Blvd, Suite 180  
Grandview Heights, Ohio

DESIGNER  
TDP

REVIEWER  
MJC 04/26/22

PROJECT ID  
107630

SHEET TOTAL  
P.17 | 1003

MAD/PIC-71-7.30/0.00

MODEL: Sheet PAPER: 17x11 (in.) DATE: 2/12/2023 TIME: 10:44:38 PM USER: mcomett P3\_OHDOT\_Worksets\107630\00-Engineering\Roadway\Sheets\107630\_GG104.dgn

SHEET NUM.										PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
655	656							03/IMS/11	04/IMS/10								
<b>STRUCTURE OVER 20 FOOT SPAN (MAD-71-08.740L)</b>																	
LS								LS	LS	202	11203	LS				PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	653, 657-658, 660-663
216								147	69	202	22900	216	SY			APPROACH SLAB REMOVED	
LS								LS	LS	503	11101	LS				COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN	653, 660
963								655	308	503	21100	963	CY			UNCLASSIFIED EXCAVATION	
1,293								880	413	504	11101	1,293	SF			STEEL SHEET PILING LEFT IN PLACE, AS PER PLAN (ELASTIC SECTION MODULUS = 18.1 CU IN/FT)	660
LS								LS	LS	505	11100	LS				PILE DRIVING EQUIPMENT MOBILIZATION	
3,790								2,578	1,212	507	00200	3,790	FT			STEEL PILES HP12X53, FURNISHED	
3,330								2,265	1,065	507	00250	3,330	FT			STEEL PILES HP12X53, DRIVEN	
169,735								115,420	54,315	509	10000	169,735	LB			EPOXY COATED REINFORCING STEEL	
57,210								38,903	18,307	509	10001	57,210	LB			EPOXY COATED REINFORCING STEEL, AS PER PLAN	676, 689
8,702								5,918	2,784	509	30020	8,702	FT			NO. 4 GFRP DEFORMED BARS	
447								304	143	511	34446	447	CY			CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK	
86								59	27	511	34451	86	CY			CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN	698
260								177	83	511	40513	260	CY			CLASS QC1 CONCRETE WITH QC/QA, PIER ABOVE FOOTINGS, AS PER PLAN	676
147								100	47	511	43512	147	CY			CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT INCLUDING FOOTING	
192								131	61	511	46512	192	CY			CLASS QC1 CONCRETE WITH QC/QA, FOOTING	
1,331								906	425	512	10100	1,331	SY			SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
28								20	8	512	33000	28	SY			TYPE 2 WATERPROOFING	
441,500								300,220	141,280	513	10241	441,500	LB			STRUCTURAL STEEL MEMBERS, LEVEL 2, AS PER PLAN	690
7,872								5,353	2,519	513	20000	7,872	EACH			WELDED STUD SHEAR CONNECTORS	
1,432								974	458	514	00061	1,432	SF			FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT, AS PER PLAN	683
1,432								974	458	514	00067	1,432	SF			FIELD PAINTING STRUCTURAL STEEL, FINISH COAT, AS PER PLAN	683
114								78	36	516	10010	114	FT			ARMORLESS PREFORMED JOINT SEAL	
100								68	32	516	13200	100	SF			1/2" PREFORMED EXPANSION JOINT FILLER	
120								82	38	516	13600	120	SF			1" PREFORMED EXPANSION JOINT FILLER	
49								34	15	516	13900	49	SF			2" PREFORMED EXPANSION JOINT FILLER	
139								95	44	516	14014	139	FT			INTEGRAL ABUTMENT EXPANSION JOINT SEAL	
16								11	5	516	44100	16	EACH			ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (13" x 18" x 2.499")	
16								11	5	516	44201	16	EACH			ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (11" x 14" x 3.398")	680
10								7	3	518	12301	10	EACH			SCUPPERS, INCLUDING SUPPORTS, AS PER PLAN	690
123								84	39	518	21200	123	CY			POROUS BACKFILL WITH GEOTEXTILE FABRIC	
168								115	53	518	40000	168	FT			6" PERFORATED CORRUGATED PLASTIC PIPE	
80								55	25	518	40011	80	FT			6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS, AS PER PLAN	669, 673
2								2		523	20000	2	EACH			DYNAMIC LOAD TESTING	
330								225	105	526	25011	330	SY			REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15"), AS PER PLAN	698
114								78	36	526	90031	114	FT			TYPE C INSTALLATION, AS PER PLAN	698
LS								LS	LS	SPECIAL	53000200	LS				STRUCTURES (TEMPORARY SUPPORT SYSTEM)	664
295								201	94	601	32200	295	CY			ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	
<b>STRUCTURE OVER 20 FOOT SPAN (MAD-71-08.740R)</b>																	
LS								LS	LS	202	11203	LS				PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	653, 657-658, 660-663
216								147	69	202	22900	216	SY			APPROACH SLAB REMOVED	
LS								LS	LS	503	11101	LS				COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN	653, 660
830								565	265	503	21100	830	CY			UNCLASSIFIED EXCAVATION	
LS								LS	LS	505	11100	LS				PILE DRIVING EQUIPMENT MOBILIZATION	
3,790								2,578	1,212	507	00200	3,790	FT			STEEL PILES HP12X53, FURNISHED	
3,330								2,265	1,065	507	00250	3,330	FT			STEEL PILES HP12X53, DRIVEN	
209,967								142,778	67,189	509	10000	209,967	LB			EPOXY COATED REINFORCING STEEL	
16,014								10,890	5,124	509	10001	16,014	LB			EPOXY COATED REINFORCING STEEL, AS PER PLAN	678
8,702								5,918	2,784	509	30020	8,702	FT			NO. 4 GFRP DEFORMED BARS	
447								304	143	511	34446	447	CY			CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK	
86								59	27	511	34451	86	CY			CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN	698
260								177	83	511	40513	260	CY			CLASS QC1 CONCRETE WITH QC/QA, PIER ABOVE FOOTINGS, AS PER PLAN	678
147								100	47	511	43512	147	CY			CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT INCLUDING FOOTING	
192								131	61	511	46512	192	CY			CLASS QC1 CONCRETE WITH QC/QA, FOOTING	
1,331								906	425	512	10100	1,331	SY			SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
18								13	5	512	33000	18	SY			TYPE 2 WATERPROOFING	
441,500								300,220	141,280	513	10241	441,500	LB			STRUCTURAL STEEL MEMBERS, LEVEL 2, AS PER PLAN	690
7,872								5,353	2,519	513	20000	7,872	EACH			WELDED STUD SHEAR CONNECTORS	
1,432								974	458	514	00061	1,432	SF			FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT, AS PER PLAN	683

GENERAL SUMMARY

DESIGN AGENCY



**E.L. ROBINSON**  
ENGINEERING  
1488 West 9th St, Suite 800  
Cleveland, Ohio 44115  
950 Goodale Blvd, Suite 180  
Grandview Heights, Ohio 44131

DESIGNER  
**CJS**

REVIEWER  
**ACF 04/26/22**

PROJECT ID  
**107630**

SHEET TOTAL  
P. 117 | 1003

SHEET NUM.								PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
656	709	710					03/IMS/11	04/IMS/10							
1,432							974	458	514	00067	1,432	SF	<b>STRUCTURE OVER 20 FOOT SPAN (MAD-71-08.740R) - CONT.</b>		683
14							78	36	516	10010	114	FT	ARMORLESS PREFORMED JOINT SEAL		
100							68	32	516	13200	100	SF	1/2" PREFORMED EXPANSION JOINT FILLER		
120							82	38	516	13600	120	SF	1" PREFORMED EXPANSION JOINT FILLER		
49							34	15	516	13900	49	SF	2" PREFORMED EXPANSION JOINT FILLER		
139							95	44	516	14014	139	FT	INTEGRAL ABUTMENT EXPANSION JOINT SEAL		
16							11	5	516	44100	16	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (13" x 18" x 2.499")		
16							11	5	516	44201	16	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (11" x 14" x 3.398")	31	
123							84	39	518	21200	123	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC		
168							115	53	518	40000	168	FT	6" PERFORATED CORRUGATED PLASTIC PIPE		
50							34	16	518	40011	50	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS, AS PER PLAN	671, 675	
330							225	105	526	25011	330	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15"), AS PER PLAN	698	
114							78	36	526	90031	114	FT	TYPE C INSTALLATION, AS PER PLAN	698	
295							201	94	601	32200	295	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER		
													<b>STRUCTURE OVER 20 FOOT SPAN (PIC-71-00.460L)</b>		
	LS						LS	LS	202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	708, 711	
	222						151	71	202	22900	222	SY	APPROACH SLAB REMOVED		
	LS						LS	LS	503	11100	LS		COFFERDAMS AND EXCAVATION BRACING		
	273						186	87	503	21100	273	CY	UNCLASSIFIED EXCAVATION		
	576						392	184	504	11101	576	SF	STEEL SHEET PILING LEFT IN PLACE, AS PER PLAN (SECTION MODULUS = 18.1 IN3/FT)	708	
	LS						LS	LS	505	11100	LS		PILE DRIVING EQUIPMENT MOBILIZATION		
	1,620						1,102	518	507	00600	1,620	FT	14" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN		
	1,740						1,184	556	507	00650	1,740	FT	14" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED		
	24						17	7	507	93300	24	EACH	STEEL POINTS OR SHOES		
	82,143						55,858	26,285	509	10000	82,143	LB	EPOXY COATED REINFORCING STEEL		
	4,966						3,377	1,589	509	30020	4,966	FT	NO. 4 GFRP DEFORMED BARS		
	392						267	125	511	34446	392	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK		
	48						33	15	511	34451	48	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN	741	
	193						132	61	511	43512	193	CY	CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT INCLUDING FOOTING		
	512						349	163	512	10100	512	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)		
	25						17	8	512	33000	25	SY	TYPE 2 WATERPROOFING		
	8						6	2	515	15100	8	EACH	DRAPED STRAND PRESTRESSED CONCRETE BRIDGE I-BEAM MEMBERS, LEVEL 3, TYPE WF54-49 (LENGTH = 122'-4")		
	21						15	6	515	20000	21	EACH	INTERMEDIATE DIAPHRAGMS		
	137						94	43	516	13200	137	SF	1/2" PREFORMED EXPANSION JOINT FILLER		
	137						94	43	516	13600	137	SF	1" PREFORMED EXPANSION JOINT FILLER		
	150						102	48	516	13900	150	SF	2" PREFORMED EXPANSION JOINT FILLER		
	156						107	49	516	14014	156	FT	INTEGRAL ABUTMENT EXPANSION JOINT SEAL		
	16						11	5	516	44001	16	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (18"x10"x1.75" W/ LOAD PLATE ASSEMBLY)	725	
	7						5	2	518	12301	7	EACH	SCUPPERS, INCLUDING SUPPORTS, AS PER PLAN	735	
	137						94	43	518	21200	137	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC		
	190						130	60	518	40000	190	FT	6" PERFORATED CORRUGATED PLASTIC PIPE		
	60						41	19	518	40011	60	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS, AS PER PLAN	718, 722	
	2						2		523	20000	2	EACH	DYNAMIC LOAD TESTING		
	330						225	105	526	25001	330	SY	REINFORCED CONCRETE APPROACH SLABS (T=15"), AS PER PLAN	741	
	129						88	41	526	90010	129	FT	TYPE A INSTALLATION		
	313						213	100	601	32200	313	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER		
	54						37	17	846	00110	54	CF	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM		
													<b>STRUCTURE OVER 20 FOOT SPAN (PIC-71-00.460R)</b>		
	LS						LS	LS	202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	708	
	222						151	71	202	22900	222	SY	APPROACH SLAB REMOVED		
	LS						LS	LS	503	11100	LS		COFFERDAMS AND EXCAVATION BRACING		
	273						186	87	503	21100	273	CY	UNCLASSIFIED EXCAVATION		
	LS						LS	LS	505	11100	LS		PILE DRIVING EQUIPMENT MOBILIZATION		
	1,620						1,102	518	507	00600	1,620	FT	14" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN		
	1,740						1,184	556	507	00650	1,740	FT	14" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED		
	24						17	7	507	93300	24	EACH	STEEL POINTS OR SHOES		
	82,509						56,107	26,402	509	10000	82,509	LB	EPOXY COATED REINFORCING STEEL		
	4,966						3,377	1,589	509	30020	4,966	FT	NO. 4 GFRP DEFORMED BARS		
	388						264	124	511	34446	388	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK		
	48						33	15	511	34451	48	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN	741	

GENERAL SUMMARY

DESIGN AGENCY



**E.L. ROBINSON**  
ENGINEERING  
1466 West 9th St, Suite 800  
Cleveland, Ohio 44115  
950 Goodale Blvd, Suite 160  
Grandview Heights, Ohio 44131

DESIGNER

CJS

REVIEWER

ACF 04/26/22

PROJECT ID

107630

SHEET TOTAL

P.118 1003



SHEET NUM.									PART.					ALT (X)	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	
11	12	13	14	15	16	17	33	869	01/IMS/04	02/IMS/03	03/IMS/11	04/IMS/10	05/IMS/14								
								55						55	601	20001	55	SY	<b>STRUCTURE OVER 20 FOOT SPAN (PIC-71-0278) - CONT.</b>		
								642						642	607	39900	642	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC	868	
								1						1	625	33000	1	EACH	STRUCTURE GROUNDING SYSTEM		
								320						320	840	23000	320	CY	SELECT GRANULAR BACKFILL		
								14						14	843	50000	14	SF	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR		
								1,568						1,568	863	00100	1,568	SY	GEOGRID, TYPE P1		
																			<b>STRUCTURE OVER 20 FOOT SPAN (PIC-71-0278) ALTERNATES</b>		
								122,095						122,095	X	509	10000	122,095	LB	EPOXY COATED STEEL REINFORCEMENT (ALTERNATE 1)	
								11,484						11,484	X	509	30020	11,484	FT	NO. 4 DEFORMED GFRP REINFORCEMENT (ALTERNATE 1)	
								29,781						29,781	X	509	10000	29,781	LB	EPOXY COATED STEEL REINFORCEMENT (ALTERNATE 2)	
								33,180						33,180	X	509	30020	33,180	FT	NO. 4 DEFORMED GFRP REINFORCEMENT (ALTERNATE 2)	
								54,085						54,085	X	509	30030	54,085	FT	NO. 5 DEFORMED GFRP REINFORCEMENT (ALTERNATE 2)	
								26,855						26,855	X	509	30040	26,855	FT	NO. 6 DEFORMED GFRP REINFORCEMENT (ALTERNATE 2)	
																			MAINTENANCE OF TRAFFIC		
								3,390	2,306	1,084					411	10000	3,390	CY	STABILIZED CRUSHED AGGREGATE		
					1,500				1,020	480					614	11110	1,500	hour	<b>LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE</b>		
				2					2						SPECIAL	61411300	2	EACH	WORK ZONE TRAFFIC SIGNAL	15	
									7,058	3,320					614	11630	10,378	FT	INCREASED BARRIER DELINEATION		
									412.5	131.5					SPECIAL	61412200	412.5	FT	WORK ZONE GUARDRAIL	14	
						3	22		17	8					614	12380	25	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)		
									LS	LS					614	12420	LS		DETOUR SIGNING		
	39								27	12					614	12484	39	EACH	WORK ZONE INCREASED PENALTIES SIGN		
									7	3					614	12500	10	EACH	REPLACEMENT SIGN		
									204	96					614	12600	300	EACH	REPLACEMENT DRUM		
									3						614	12756	3	EACH	WORK ZONE CROSSOVER LIGHTING SYSTEM		
									2,879	1,354					614	12801	4,233	EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN	13	
									2,236	1,052					614	13310	3,288	EACH	BARRIER REFLECTOR, TYPE 1 (ONE-WAY)		
									66	31					614	13312	97	EACH	BARRIER REFLECTOR, TYPE 2 (ONE-WAY)		
									1,315	618					614	13350	1,933	EACH	OBJECT MARKER, ONE WAY		
									585	275					614	13360	860	EACH	OBJECT MARKER, TWO WAY		
									49	23					614	18601	72	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	13	
								30.91	22	8.91					614	20056	30.91	MILE	WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT		
								32.54	23	9.54					614	20560	32.54	MILE	WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT		
								0.44	0.3	0.14					614	21100	0.44	MILE	WORK ZONE CENTER LINE, CLASS I, 642 PAINT		
								89.13	61	28.13					614	22056	89.13	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT		
								1.63	1.11	0.52					614	22100	1.63	MILE	WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT		
								32.54	22.13	10.41					614	22360	32.54	MILE	WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT		
								6.73	4.76	1.97					614	23110	6.73	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT		
								3,140	2,136	1,004					614	23690	3,140	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 12", 642 PAINT		
								10,916	6,841	3,205					614	24100	10,916	FT	WORK ZONE DOTTED LINE, CLASS I, 8", 807 PAINT		
								3,216	2,187	1,029					614	24612	3,216	FT	WORK ZONE DOTTED LINE, CLASS III, 6", 642 PAINT		
								40	28	12					614	26200	40	FT	WORK ZONE STOP LINE, CLASS I, 642 PAINT		
									31	14					614	32658	45	EACH	WORK ZONE SPEED MEASUREMENT MARKING, CLASS I, 642 PAINT		
									LS	LS					615	10000	LS		ROADS FOR MAINTAINING TRAFFIC		
								15,308	10,410	4,898					615	20000	15,308	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A		
								44,333	30,147	14,186					615	20001	44,333	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN	16	
									898	422					616	10000	1,320	MGAL	WATER		
									35.44	10.44					618	41000	35.44	MILE	RUMBLE STRIPES, EDGE LINE (ASPHALT CONCRETE)		
									1	1					622	41050	1	EACH	PORTABLE BARRIER, "Y" CONNECTOR		
									132,382	90,020	42,362				622	41011	132,382	FT	PORTABLE BARRIER, 50", AS PER PLAN		
									1,992	637					622	41110	1,992	FT	PORTABLE BARRIER, ANCHORED		
									267	125					808	18700	392	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY		
									41	19					829	00100	60	SNMT	WORK ZONE EGRESS WARNING SYSTEM		
									LS	LS	LS	LS	LS		108	10000	LS		<b>INCIDENTALS</b>		
									LS	LS	LS	LS	LS		614	11000	LS		CPM PROGRESS SCHEDULE		
									12	6	12	6	4		619	16020	40	MNTH	MAINTAINING TRAFFIC		
									LS	LS	LS	LS	LS		623	10000	LS		FIELD OFFICE, TYPE C		
									LS	LS	LS	LS	LS		624	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING		
									LS	LS	LS	LS	LS		878	25000	LS		MOBILIZATION		
									39,000	19,500	39,000	19,500	13,000		100	51100	130,000	EACH	INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS		
									3,675	1,838	3,675	1,837	1,225		SPECIAL	11110100	12,250	EACH	DEPARTMENT'S SHARE OF THE DISPUTE RESOLUTION BOARD		
																			DEPARTMENTS SHARE FACILITATED PARTNERING COSTS		

GENERAL SUMMARY

DESIGN AGENCY



**E.L. ROBINSON**  
ENGINEERING  
1466 West 9th St, Suite 800  
Cleveland, Ohio  
950 Goodale Blvd, Suite 180  
Grandview Heights, Ohio

DESIGNER  
**CJS**

REVIEWER  
ACF 04/26/22

PROJECT ID  
107630

SHEET TOTAL  
P.123 1003

MAD/PIC-71-7.30/0.00

MODEL: Sheet PAPER: 17x11 (in.) DATE: 2/12/2023 TIME: 10:50:06 PM USER: mcomett  
 P:\CHDOT\_Works\107630\400-Engineering\Structures\4903391\Sheets\107630\_4903391\_SC001.dgn

MADE BY: DTA/GA		DATE: 6/24/2021		ESTIMATED QUANTITIES - LEFT BRIDGE					STRUCTURAL FILE NUMBER: 4903391		
CHECKED BY: BCW/MRV		DATE: 6/24/2021									
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION			ABUT.	PIER	SUPER.	GEN.	REFERENCE SHEET NO.
202	11203	LUMP		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN						LUMP	4, 8, 9, AND 11-14 OF 55
202	22900	216	SY	APPROACH SLAB REMOVED						216	
503	11101	LUMP		COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN						LUMP	4 AND 11 OF 55
503	21100	963	CY	UNCLASSIFIED EXCAVATION			198	765			
504	11101	1,293	SF	STEEL SHEET PILING LEFT IN PLACE, AS PER PLAN (ELASTIC SECTION MODULUS = 18.1 CU IN/FT)						1,293	11 OF 55
505	11100	LUMP		PILE DRIVING EQUIPMENT MOBILIZATION						LUMP	
507	00200	3,790	FT	STEEL PILES HP12X53, FURNISHED			990	2,800			
507	00250	3,330	FT	STEEL PILES HP12X53, DRIVEN			880	2,450			
509	10000	169,735	LB	EPOXY COATED REINFORCING STEEL			15,367	62,375	91,993		
509	10001	57,210	LB	EPOXY COATED REINFORCING STEEL, AS PER PLAN				15,887	41,323		27 AND 40 OF 55
509	30020	8,702	FT	NO. 4 GFRP DEFORMED BARS					8,702		
511	34446	447	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK					447		
511	34451	86	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN					86		49 OF 55
511	40513	260	CY	CLASS QC1 CONCRETE WITH QC/QA, PIER ABOVE FOOTINGS, AS PER PLAN				260			27 OF 55
511	43512	147	CY	CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT INCLUDING FOOTING			147				
511	46512	192	CY	CLASS QC1 CONCRETE WITH QC/QA, FOOTING				192			
512	10100	1,331	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)			80	675	56	520	
512	33000	28	SY	TYPE 2 WATERPROOFING			28				
513	10241	441,500	LB	STRUCTURAL STEEL MEMBERS, LEVEL 2, AS PER PLAN					441,500		41 OF 55
513	20000	7,872	EACH	WELDED STUD SHEAR CONNECTORS					7,872		
514	00061	1,432	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT, AS PER PLAN					1,432		34 OF 55
514	00067	1,432	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT, AS PER PLAN					1,432		34 OF 55
516	10010	114	FT	ARMORLESS PREFORMED JOINT SEAL						114	
516	13200	100	SF	1/2" PREFORMED EXPANSION JOINT FILLER			100				
516	13600	120	SF	1" PREFORMED EXPANSION JOINT FILLER			100			20	
516	13900	49	SF	2" PREFORMED EXPANSION JOINT FILLER			49				
516	14014	139	FT	INTEGRAL ABUTMENT EXPANSION JOINT SEAL			139				
516	44100	16	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (13"x18"x2.499")				16			
516	44201	16	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (11"x14"x3.398")			16				31 OF 55
518	12301	10	EACH	SCUPPERS, INCLUDING SUPPORTS, AS PER PLAN					10		41 OF 55
518	21200	123	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC			123				
518	40000	168	FT	6" PERFORATED CORRUGATED PLASTIC PIPE			168				
518	40011	80	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS, AS PER PLAN			80				20 AND 24 OF 55
523	20000	2	EACH	DYNAMIC LOAD TESTING						2	
526	25011	330	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15"), AS PER PLAN						330	49 OF 55
526	90031	114	FT	TYPE C INSTALLATION, AS PER PLAN						114	49 OF 55
SPECIAL	53000200	LUMP		STRUCTURES (TEMPORARY SUPPORT SYSTEM)						LUMP	15 OF 55
601	32200	295	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER						295	

ESTIMATED QUANTITIES - LEFT BRIDGE  
 BRIDGE NO. MAD-00071-08.740L&R  
 IR 71 OVER DEER CREEK

SFN 4903391  
 SFN 4903421  
 DESIGN AGENCY  
  
 E.L. ROBINSON  
 ENGINEERING  
 1488 West 9th St, Suite 800  
 Cleveland, Ohio 44115  
 950 Goodale Blvd, Suite 160  
 Grandview Heights, Ohio 44131  
 DESIGNER CHECKER  
 GA MRV  
 REVIEWER  
 DFT 04/05/22  
 PROJECT ID  
 107630  
 SUBSET TOTAL  
 6 55  
 SHEET TOTAL  
 P.655 1003

MAD/PIC-71-7.30/0.00

MODEL: Sheet PAPER: 17x11 (in.) DATE: 2/12/2023 TIME: 10:50:58 PM USER: mcomett  
P:\OH\DOT\_Worksets\107630\400-Engineering\Structures\4903391\Sheets\107630\_4903391\_SC002.dgn

MADE BY: DTA/GA		DATE: 6/24/2021		ESTIMATED QUANTITIES - RIGHT BRIDGE						STRUCTURAL FILE NUMBER: 4903421		
CHECKED BY: BCW/MRV		DATE: 6/24/2021										
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION				ABUT.	PIER	SUPER.	GEN.	REFERENCE SHEET NO.
202	11203	LUMP		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN							LUMP	4, 8, 9, AND 11-14 OF 55
202	22900	216	SY	APPROACH SLAB REMOVED							216	
503	11101	LUMP		COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN							LUMP	4 AND 11 OF 55
503	21100	830	CY	UNCLASSIFIED EXCAVATION				206	624			
505	11100	LUMP		PILE DRIVING EQUIPMENT MOBILIZATION							LUMP	
507	00200	3,790	FT	STEEL PILES HP12X53, FURNISHED				990	2,800			
507	00250	3,330	FT	STEEL PILES HP12X53, DRIVEN				880	2,450			
509	10000	209,967	LB	EPOXY COATED REINFORCING STEEL				15,377	61,618	132,972		
509	10001	16,014	LB	EPOXY COATED REINFORCING STEEL, AS PER PLAN					16,014			29 OF 55
509	30020	8,702	FT	NO. 4 GFRP DEFORMED BARS						8,702		
511	34446	447	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK						447		
511	34451	86	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN						86		49 OF 55
511	40513	260	CY	CLASS QC1 CONCRETE WITH QC/QA, PIER ABOVE FOOTINGS, AS PER PLAN					260			29 OF 55
511	43512	147	CY	CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT INCLUDING FOOTING				147				
511	46512	192	CY	CLASS QC1 CONCRETE WITH QC/QA, FOOTING					192			
512	10100	1,331	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)				80	675	56	520	
512	33000	18	SY	TYPE 2 WATERPROOFING				18				
513	10241	441,500	LB	STRUCTURAL STEEL MEMBERS, LEVEL 2, AS PER PLAN						441,500		41 OF 55
513	20000	7,872	EACH	WELDED STUD SHEAR CONNECTORS						7,872		
514	00061	1,432	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT, AS PER PLAN						1,432		34 OF 55
514	00067	1,432	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT, AS PER PLAN						1,432		34 OF 55
516	10010	114	FT	ARMORLESS PREFORMED JOINT SEAL							114	
516	13200	100	SF	1/2" PREFORMED EXPANSION JOINT FILLER				100				
516	13600	120	SF	1" PREFORMED EXPANSION JOINT FILLER				100			20	
516	13900	49	SF	2" PREFORMED EXPANSION JOINT FILLER				49				
516	14014	139	FT	INTEGRAL ABUTMENT EXPANSION JOINT SEAL				139				
516	44100	16	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (13"x18"x2.499")					16			
516	44201	16	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (11"x14"x3.398")				16				31 OF 55
518	21200	123	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC				123				
518	40000	168	FT	6" PERFORATED CORRUGATED PLASTIC PIPE				168				
518	40011	50	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS, AS PER PLAN				50				22 AND 26 OF 55
526	25011	330	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15"), AS PER PLAN							330	49 OF 55
526	90031	114	FT	TYPE C INSTALLATION, AS PER PLAN							114	49 OF 55
601	32200	295	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER							295	

ESTIMATED QUANTITIES - RIGHT BRIDGE  
BRIDGE NO. MAD-00071-08.740L&R  
IR 71 OVER DEER CREEK

SFN 4903391  
SFN 4903421  
DESIGN AGENCY  
  
E.L. ROBINSON  
ENGINEERING  
1488 West 9th St, Suite 800  
Cleveland, Ohio 44115  
950 Goodale Blvd, Suite 160  
Grandview Heights, Ohio 44131  
DESIGNER CHECKER  
GA MRV  
REVIEWER  
DFT 04/05/22  
PROJECT ID  
107630  
SUBSET TOTAL  
7 55  
SHEET TOTAL  
P.656 1003